

**From:** [R4LIMS](#)  
**To:** [Berry, Chuck](#)  
**Cc:** [Turner, Nardina](#); [Lkrebs@otie.com](mailto:Lkrebs@otie.com); [Saskowski, Ronald](#); [Hendel, Jeffrey](#); [Aker, Sandra](#)  
**Subject:** R4 LIMS Results: Project 19-0198, E191407 PHYSP TMTL 04 23 19 1258  
**Date:** Tuesday, April 23, 2019 1:16:20 PM  
**Attachments:** [E191407 PHYSP TMTL FINAL 04 23 19 1258.PDF](#)  
[E191407 PHYSP TMTL FINAL 04 23 19 1258 - 19-0198 - ELM STREET LEAD 04-23-2019.GAN000407160.Dat](#)

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On Tuesday, April 23, 2019, results for the following were released by the Region 4 Laboratory:

**Analyses:**

Physical Properties (PHYSP)

Total Metals (TMTL)

**Project Number:** 19-0198

**Project Name:** Elm Street Lead

**City:** Atlanta    **County:** Fulton    **State:** GA

**These results were reported by:**

**Jeffrey Hendel** ( E-mail: [Hendel.Jeffrey@epa.gov](mailto:Hendel.Jeffrey@epa.gov) )

If you have questions concerning the laboratory results, please feel free to contact the laboratory personnel shown above as having reported the data. We also encourage you to provide feedback to the Region 4 laboratory by filling out our online (*EPA internal network only*) [Customer Survey Form](#).

**These results are for the following Sample Type(s):**

Soil (Surface Soil)

**PDF DATA RESULTS REPORT FILE ATTACHMENT:**

An Adobe Acrobat PDF file is attached to this message that contains final results for the analyses as indicated in the data report.

**DATA EXPORT FILE ATTACHMENT:**

If attached, data export files will be tab delimited ASCII text files contained in a file that has been formatted using the ZIP archiving format (.Dat extension). Please consult your local computer support personnel if you have problems extracting these files. If you have questions about the data file formats and the information contained in these files, or if you would like to request export files for previously reported data, use the contact information shown below to contact the appropriate person with your concerns. To generate export files for previously reported data we'll need the name of the PDF report file that was attached to the original transmittal message.

For questions concerning this message and attachments, or any other LIMS or data reporting issues, please call the SESD PC Hotline at 706-355-8825 or send an email to [r4lims@epa.gov](mailto:r4lims@epa.gov).

**SAMPLE DISPOSAL POLICY:**

Due to limited space for long term sample storage, ASB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at [R4SampleCustody@epa.gov](mailto:R4SampleCustody@epa.gov).

**\*\*CONFIDENTIALITY NOTICE\*\***

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

April 23, 2019

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 19-0198, Elm Street Lead

**FROM:** Jeffrey Hendel  
ASB Inorganic Chemistry Section Chief

**THRU:** Sandra Aker, Chief  
Analytical Services Branch

**TO:** Chuck Berry

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Services Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>Physical Properties (PHYSP)</b>		
Physical Properties	EPA 200.2 (Soil)	ISO
<b>Total Metals (TMTL)</b>		
Total Metals	EPA 200.8 (Soil)	ISO
Total Metals	EPA 6010 (Soil)	ISO



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cc: Nardina Turner





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Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 19-0198, Elm Street Lead**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
ESL-1013B-032219	E191407-01	Surface Soil	3/22/19 10:55	4/5/19 10:35
ESL-1013C-032219	E191407-02	Surface Soil	3/22/19 11:20	4/5/19 10:35
ESL-1044B-032219	E191407-03	Surface Soil	3/22/19 14:00	4/5/19 10:35
ESL-1044C-032219	E191407-04	Surface Soil	3/22/19 14:25	4/5/19 10:35
ESL-1044o-032219	E191407-05	Surface Soil	3/22/19 14:30	4/5/19 10:35
ESL-1047A-032219	E191407-06	Surface Soil	3/22/19 09:45	4/5/19 10:35
ESL-1047o-032219	E191407-07	Surface Soil	3/22/19 10:15	4/5/19 10:35
ESL-1055B-032219	E191407-08	Surface Soil	3/22/19 12:45	4/5/19 10:35
ESL-1055C-032219	E191407-09	Surface Soil	3/22/19 13:15	4/5/19 10:35
ESL-1055G-032219	E191407-10	Surface Soil	3/22/19 13:45	4/5/19 10:35



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### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
OM-1	Matrix Spike Recovery less than method control limits

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

#### ACCREDITATIONS:

ISO	ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.  Refer to the certificate and scope of accreditation AT-1644 at: <a href="http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd">http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd</a>
NR	The EPA Region 4 Laboratory has not requested accreditation for this test.



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1013B-032219

Lab ID: E191407-01

Station ID: ESL1013B

Matrix: Surface Soil

Date Collected: 3/22/19 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	1.3	J, QM-1	mg/kg dry	0.20	4/12/19 13:20	4/19/19 13:56	EPA 200.8
7440-38-2	Arsenic	4.0		mg/kg dry	0.20	4/12/19 13:20	4/19/19 13:56	EPA 200.8
7440-39-3	Barium	260		mg/kg dry	1.5	4/12/19 13:18	4/16/19 14:49	EPA 6010
7440-43-9	Cadmium	1.3		mg/kg dry	0.10	4/12/19 13:20	4/19/19 13:56	EPA 200.8
7440-47-3	Chromium	27		mg/kg dry	1.5	4/12/19 13:18	4/16/19 14:49	EPA 6010
7439-92-1	Lead	560		mg/kg dry	5.0	4/12/19 13:20	4/19/19 12:37	EPA 200.8
7439-97-6	Mercury	0.25		mg/kg dry	0.080	4/12/19 13:20	4/19/19 13:56	EPA 200.8
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	4/12/19 13:20	4/19/19 13:56	EPA 200.8
7440-22-4	Silver	1.5	U	mg/kg dry	1.5	4/12/19 13:18	4/16/19 14:49	EPA 6010
7440-28-0	Thallium	0.46		mg/kg dry	0.20	4/12/19 13:20	4/19/19 13:56	EPA 200.8



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Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

**Project: 19-0198, Elm Street Lead**

**Sample ID:** ESL-1013B-032219

**Lab ID:** E191407-01

**Station ID:** ESL1013B

**Matrix:** Surface Soil

**Date Collected:** 3/22/19 10:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	97		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1013C-032219

Lab ID: E191407-02

Station ID: ESL1013C

Matrix: Surface Soil

Date Collected: 3/22/19 11:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	1.1		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:20	EPA 200.8
7440-38-2	Arsenic	5.5		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:20	EPA 200.8
7440-39-3	Barium	460		mg/kg dry	2.5	4/12/19 13:18	4/16/19 14:58	EPA 6010
7440-43-9	Cadmium	3.0		mg/kg dry	0.098	4/12/19 13:20	4/19/19 14:20	EPA 200.8
7440-47-3	Chromium	34		mg/kg dry	2.5	4/12/19 13:18	4/16/19 14:58	EPA 6010
7439-92-1	Lead	690		mg/kg dry	4.9	4/12/19 13:20	4/19/19 12:52	EPA 200.8
7439-97-6	Mercury	3.0		mg/kg dry	2.0	4/12/19 13:20	4/19/19 12:52	EPA 200.8
7782-49-2	Selenium	0.50		mg/kg dry	0.39	4/12/19 13:20	4/19/19 14:20	EPA 200.8
7440-22-4	Silver	2.5	U	mg/kg dry	2.5	4/12/19 13:18	4/16/19 14:58	EPA 6010
7440-28-0	Thallium	0.48		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:20	EPA 200.8





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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1013C-032219

Lab ID: E191407-02

Station ID: ESL1013C

Matrix: Surface Soil

Date Collected: 3/22/19 11:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1044B-032219

Lab ID: E191407-03

Station ID: ESL1044B

Matrix: Surface Soil

Date Collected: 3/22/19 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.24		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:25	EPA 200.8
7440-38-2	Arsenic	3.0		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:25	EPA 200.8
7440-39-3	Barium	120		mg/kg dry	0.99	4/12/19 13:18	4/16/19 15:01	EPA 6010
7440-43-9	Cadmium	0.22		mg/kg dry	0.099	4/12/19 13:20	4/19/19 14:25	EPA 200.8
7440-47-3	Chromium	18		mg/kg dry	0.99	4/12/19 13:18	4/16/19 15:01	EPA 6010
7439-92-1	Lead	62		mg/kg dry	0.99	4/12/19 13:20	4/19/19 12:57	EPA 200.8
7439-97-6	Mercury	0.095		mg/kg dry	0.079	4/12/19 13:20	4/19/19 14:25	EPA 200.8
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	4/12/19 13:20	4/19/19 14:25	EPA 200.8
7440-22-4	Silver	0.99	U	mg/kg dry	0.99	4/12/19 13:18	4/16/19 15:01	EPA 6010
7440-28-0	Thallium	0.29		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:25	EPA 200.8



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

**Project: 19-0198, Elm Street Lead**

**Sample ID:** ESL-1044B-032219

**Lab ID:** E191407-03

**Station ID:** ESL1044B

**Matrix:** Surface Soil

**Date Collected:** 3/22/19 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	95		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1044C-032219

Lab ID: E191407-04

Station ID: ESL1044C

Matrix: Surface Soil

Date Collected: 3/22/19 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:30	EPA 200.8
7440-38-2	Arsenic	3.1		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:30	EPA 200.8
7440-39-3	Barium	230		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:07	EPA 6010
7440-43-9	Cadmium	1.3		mg/kg dry	0.099	4/12/19 13:20	4/19/19 14:30	EPA 200.8
7440-47-3	Chromium	18		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:07	EPA 6010
7439-92-1	Lead	310		mg/kg dry	4.9	4/12/19 13:20	4/19/19 13:12	EPA 200.8
7439-97-6	Mercury	0.36		mg/kg dry	0.079	4/12/19 13:20	4/19/19 14:30	EPA 200.8
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	4/12/19 13:20	4/19/19 14:30	EPA 200.8
7440-22-4	Silver	1.5	U	mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:07	EPA 6010
7440-28-0	Thallium	0.30		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:30	EPA 200.8



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## Physical Properties

**Project: 19-0198, Elm Street Lead**

**Sample ID:** ESL-1044C-032219

**Lab ID:** E191407-04

**Station ID:** ESL1044C

**Matrix:** Surface Soil

**Date Collected:** 3/22/19 14:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	91		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2





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## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-10440-032219

Lab ID: E191407-05

Station ID: ESL10440

Matrix: Surface Soil

Date Collected: 3/22/19 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	1.7		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:35	EPA 200.8
7440-38-2	Arsenic	5.2		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:35	EPA 200.8
7440-39-3	Barium	300		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:10	EPA 6010
7440-43-9	Cadmium	3.5		mg/kg dry	0.098	4/12/19 13:20	4/19/19 14:35	EPA 200.8
7440-47-3	Chromium	23		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:10	EPA 6010
7439-92-1	Lead	540		mg/kg dry	4.9	4/12/19 13:20	4/19/19 13:16	EPA 200.8
7439-97-6	Mercury	0.39		mg/kg dry	0.079	4/12/19 13:20	4/19/19 14:35	EPA 200.8
7782-49-2	Selenium	0.43		mg/kg dry	0.39	4/12/19 13:20	4/19/19 14:35	EPA 200.8
7440-22-4	Silver	1.5	U	mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:10	EPA 6010
7440-28-0	Thallium	0.34		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:35	EPA 200.8



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

**Project: 19-0198, Elm Street Lead**

**Sample ID:** ESL-1044o-032219

**Lab ID:** E191407-05

**Station ID:** ESL1044O

**Matrix:** Surface Soil

**Date Collected:** 3/22/19 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	92		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1047A-032219

Lab ID: E191407-06

Station ID: ESL1047A

Matrix: Surface Soil

Date Collected: 3/22/19 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	1.6		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:50	EPA 200.8
7440-38-2	Arsenic	5.3		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:50	EPA 200.8
7440-39-3	Barium	310		mg/kg dry	2.5	4/12/19 13:18	4/16/19 15:13	EPA 6010
7440-43-9	Cadmium	1.4		mg/kg dry	0.099	4/12/19 13:20	4/19/19 14:50	EPA 200.8
7440-47-3	Chromium	33		mg/kg dry	2.5	4/12/19 13:18	4/16/19 15:13	EPA 6010
7439-92-1	Lead	680		mg/kg dry	5.0	4/12/19 13:20	4/19/19 13:21	EPA 200.8
7439-97-6	Mercury	0.45		mg/kg dry	0.079	4/12/19 13:20	4/19/19 14:50	EPA 200.8
7782-49-2	Selenium	0.43		mg/kg dry	0.40	4/12/19 13:20	4/19/19 14:50	EPA 200.8
7440-22-4	Silver	2.5	U	mg/kg dry	2.5	4/12/19 13:18	4/16/19 15:13	EPA 6010
7440-28-0	Thallium	0.44		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:50	EPA 200.8



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

**Project: 19-0198, Elm Street Lead**

**Sample ID:** ESL-1047A-032219

**Lab ID:** E191407-06

**Station ID:** ESL1047A

**Matrix:** Surface Soil

**Date Collected:** 3/22/19 9:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	93		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-10470-032219

Lab ID: E191407-07

Station ID: ESL10470

Matrix: Surface Soil

Date Collected: 3/22/19 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.20	U	mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:55	EPA 200.8
7440-38-2	Arsenic	0.92		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:55	EPA 200.8
7440-39-3	Barium	150		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:16	EPA 6010
7440-43-9	Cadmium	0.30		mg/kg dry	0.10	4/12/19 13:20	4/19/19 14:55	EPA 200.8
7440-47-3	Chromium	20		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:16	EPA 6010
7439-92-1	Lead	100		mg/kg dry	1.0	4/12/19 13:20	4/19/19 13:26	EPA 200.8
7439-97-6	Mercury	0.12		mg/kg dry	0.080	4/12/19 13:20	4/19/19 14:55	EPA 200.8
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	4/12/19 13:20	4/19/19 14:55	EPA 200.8
7440-22-4	Silver	1.5	U	mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:16	EPA 6010
7440-28-0	Thallium	0.40		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:55	EPA 200.8





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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

Project: 19-0198, Elm Street Lead

Sample ID: ESL-10470-032219

Lab ID: E191407-07

Station ID: ESL10470

Matrix: Surface Soil

Date Collected: 3/22/19 10:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	96		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1055B-032219

Lab ID: E191407-08

Station ID: ESL1055B

Matrix: Surface Soil

Date Collected: 3/22/19 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	1.8		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:59	EPA 200.8
7440-38-2	Arsenic	6.9		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:59	EPA 200.8
7440-39-3	Barium	350		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:19	EPA 6010
7440-43-9	Cadmium	1.5		mg/kg dry	0.099	4/12/19 13:20	4/19/19 14:59	EPA 200.8
7440-47-3	Chromium	28		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:19	EPA 6010
7439-92-1	Lead	610		mg/kg dry	4.9	4/12/19 13:20	4/19/19 13:31	EPA 200.8
7439-97-6	Mercury	0.31		mg/kg dry	0.079	4/12/19 13:20	4/19/19 14:59	EPA 200.8
7782-49-2	Selenium	0.39	U	mg/kg dry	0.39	4/12/19 13:20	4/19/19 14:59	EPA 200.8
7440-22-4	Silver	1.5	U	mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:19	EPA 6010
7440-28-0	Thallium	0.31		mg/kg dry	0.20	4/12/19 13:20	4/19/19 14:59	EPA 200.8



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

**Project: 19-0198, Elm Street Lead**

**Sample ID:** ESL-1055B-032219

**Lab ID:** E191407-08

**Station ID:** ESL1055B

**Matrix:** Surface Soil

**Date Collected:** 3/22/19 12:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	93		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1055C-032219

Lab ID: E191407-09

Station ID: ESL1055C

Matrix: Surface Soil

Date Collected: 3/22/19 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.63		mg/kg dry	0.20	4/12/19 13:20	4/19/19 15:04	EPA 200.8
7440-38-2	Arsenic	4.3		mg/kg dry	0.20	4/12/19 13:20	4/19/19 15:04	EPA 200.8
7440-39-3	Barium	350		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:22	EPA 6010
7440-43-9	Cadmium	1.3		mg/kg dry	0.10	4/12/19 13:20	4/19/19 15:04	EPA 200.8
7440-47-3	Chromium	29		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:22	EPA 6010
7439-92-1	Lead	400		mg/kg dry	5.0	4/12/19 13:20	4/19/19 13:36	EPA 200.8
7439-97-6	Mercury	0.32		mg/kg dry	0.080	4/12/19 13:20	4/19/19 15:04	EPA 200.8
7782-49-2	Selenium	0.40	U	mg/kg dry	0.40	4/12/19 13:20	4/19/19 15:04	EPA 200.8
7440-22-4	Silver	1.5	U	mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:22	EPA 6010
7440-28-0	Thallium	0.45		mg/kg dry	0.20	4/12/19 13:20	4/19/19 15:04	EPA 200.8



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

**Project: 19-0198, Elm Street Lead**

**Sample ID:** ESL-1055C-032219

**Lab ID:** E191407-09

**Station ID:** ESL1055C

**Matrix:** Surface Soil

**Date Collected:** 3/22/19 13:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	89		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2





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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Total Metals

Project: 19-0198, Elm Street Lead

Sample ID: ESL-1055G-032219

Lab ID: E191407-10

Station ID: ESL1055G

Matrix: Surface Soil

Date Collected: 3/22/19 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	1.0		mg/kg dry	0.20	4/12/19 13:20	4/19/19 15:09	EPA 200.8
7440-38-2	Arsenic	7.8		mg/kg dry	0.20	4/12/19 13:20	4/19/19 15:09	EPA 200.8
7440-39-3	Barium	410		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:25	EPA 6010
7440-43-9	Cadmium	1.9		mg/kg dry	0.099	4/12/19 13:20	4/19/19 15:09	EPA 200.8
7440-47-3	Chromium	32		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:25	EPA 6010
7439-92-1	Lead	520		mg/kg dry	5.0	4/12/19 13:20	4/19/19 13:41	EPA 200.8
7439-97-6	Mercury	0.28		mg/kg dry	0.079	4/12/19 13:20	4/19/19 15:09	EPA 200.8
7782-49-2	Selenium	0.56		mg/kg dry	0.40	4/12/19 13:20	4/19/19 15:09	EPA 200.8
7440-22-4	Silver	3.0		mg/kg dry	1.5	4/12/19 13:18	4/16/19 15:25	EPA 6010
7440-28-0	Thallium	0.42		mg/kg dry	0.20	4/12/19 13:20	4/19/19 15:09	EPA 200.8



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

## Physical Properties

**Project: 19-0198, Elm Street Lead**

**Sample ID:** ESL-1055G-032219

**Lab ID:** E191407-10

**Station ID:** ESL1055G

**Matrix:** Surface Soil

**Date Collected:** 3/22/19 13:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	89		%	0.0	4/10/19 14:35	4/11/19 15:30	EPA 200.2



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1904036 - M 200.2 Metals Soil**

**Blank (1904036-BLK1)**

Prepared: 04/12/19 Analyzed: 04/16/19

**EPA 6010**

Barium	U	0.50	mg/kg dry							U
Chromium	U	0.50	"							U
Silver	U	0.50	"							U

**Blank (1904036-BLK2)**

Prepared: 04/12/19 Analyzed: 04/16/19

**EPA 6010**

Barium	U	0.50	mg/kg dry							U
Chromium	U	0.50	"							U
Silver	U	0.50	"							U

**LCS (1904036-BS1)**

Prepared: 04/12/19 Analyzed: 04/16/19

**EPA 6010**

Barium	49.043	0.50	mg/kg dry	50.000		98.1	85-115			
Chromium	48.076	0.50	"	50.000		96.2	85-115			
Silver	9.1723	0.50	"	10.000		91.7	85-115			

**Matrix Spike (1904036-MS1)**

Source: E191407-01

Prepared: 04/12/19 Analyzed: 04/16/19

**EPA 6010**

Barium	301.08	1.5	mg/kg dry	49.623	260.65	81.5	75-125			
Chromium	73.250	1.5	"	49.623	26.731	93.7	75-125			
Silver	9.4288	1.5	"	9.9246	0.37595	91.2	75-125			

**Matrix Spike Dup (1904036-MSD1)**

Source: E191407-01

Prepared: 04/12/19 Analyzed: 04/16/19

**EPA 6010**

Barium	312.52	1.5	mg/kg dry	49.761	260.65	104	75-125	3.73	20	
Chromium	74.440	1.5	"	49.761	26.731	95.9	75-125	1.61	20	
Silver	9.9909	1.5	"	9.9522	0.37595	96.6	75-125	5.79	20	

**MRL Verification (1904036-PS1)**

Prepared: 04/12/19 Analyzed: 04/16/19

**EPA 6010**

Barium	0.51678	0.50	mg/kg dry	0.50000		103	70-130			MRL-3
Chromium	0.50320	0.50	"	0.50000		101	70-130			MRL-3
Silver	0.48657	0.50	"	0.50000		97.3	70-130			MRL-3, U



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**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1904037 - M 200.2 Metals Soil**

**Blank (1904037-BLK1)**

Prepared: 04/12/19 Analyzed: 04/19/19

**EPA 200.8**

Antimony	U	0.10	mg/kg dry							U
Arsenic	U	0.10	"							U
Cadmium	U	0.050	"							U
Lead	U	0.10	"							U
Mercury	U	0.040	"							U
Selenium	U	0.20	"							U
Thallium	U	0.10	"							U

**Blank (1904037-BLK2)**

Prepared: 04/12/19 Analyzed: 04/19/19

**EPA 200.8**

Antimony	U	0.10	mg/kg dry							U
Arsenic	U	0.10	"							U
Cadmium	U	0.050	"							U
Lead	U	0.10	"							U
Mercury	U	0.040	"							U
Selenium	U	0.20	"							U
Thallium	U	0.10	"							U

**LCS (1904037-BS1)**

Prepared: 04/12/19 Analyzed: 04/19/19

**EPA 200.8**

Antimony	97.251	1.2	mg/kg dry	100.00		97.3	85-115
Arsenic	48.543	1.2	"	50.000		97.1	85-115
Cadmium	20.015	0.62	"	20.000		100	85-115
Lead	100.23	1.2	"	100.00		100	85-115
Mercury	5.1384	0.50	"	5.0000		103	85-115
Selenium	97.757	2.5	"	100.00		97.8	85-115
Thallium	20.463	1.2	"	20.000		102	85-115

**Matrix Spike (1904037-MS1)**

Source: E191407-01

Prepared: 04/12/19 Analyzed: 04/19/19

**EPA 200.8**

Antimony	31.389	5.0	mg/kg dry	99.246	1.3681	30.2	70-130		QM-1
Arsenic	49.248	5.0	"	49.623	4.0337	91.1	70-130		
Cadmium	20.813	2.5	"	19.849	1.5428	97.1	70-130		
Lead	654.66	5.0	"	99.246	564.97	90.4	70-130		XM-1
Mercury	5.9323	2.0	"	4.9623	U	120	70-130		
Selenium	73.976	9.9	"	99.246	U	74.5	70-130		
Thallium	19.943	5.0	"	19.849	0.50338	97.9	70-130		



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D.A.R.T. Id: 19-0198

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**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1904037 - M 200.2 Metals Soil**

**Matrix Spike (1904037-MS2)**

Source: E191407-01RE1

Prepared: 04/12/19 Analyzed: 04/19/19

**EPA 200.8**

Antimony	32.469	1.2	mg/kg dry	99.246	1.3475	31.4	70-130			QM-1
Arsenic	47.007	1.2	"	49.623	4.0239	86.6	70-130			
Cadmium	20.778	0.62	"	19.849	1.3373	97.9	70-130			
Lead	619.78	1.2	"	99.246	486.36	134	70-130			QC-4, XM-1
Mercury	5.0906	0.50	"	4.9623	0.25197	97.5	70-130			
Selenium	75.682	2.5	"	99.246	U	76.3	70-130			
Thallium	19.077	1.2	"	19.849	0.45906	93.8	70-130			

**Matrix Spike Dup (1904037-MSD1)**

Source: E191407-01

Prepared: 04/12/19 Analyzed: 04/19/19

**EPA 200.8**

Antimony	27.347	5.0	mg/kg dry	99.522	1.3681	26.1	70-130	13.8	20	QM-1
Arsenic	48.470	5.0	"	49.761	4.0337	89.3	70-130	1.59	20	
Cadmium	20.824	2.5	"	19.904	1.5428	96.9	70-130	0.0575	20	
Lead	649.73	5.0	"	99.522	564.97	85.2	70-130	0.755	20	XM-1
Mercury	5.0614	2.0	"	4.9761	U	102	70-130	15.8	20	
Selenium	76.680	10	"	99.522	U	77.0	70-130	3.59	20	
Thallium	20.337	5.0	"	19.904	0.50338	99.6	70-130	1.96	20	

**Matrix Spike Dup (1904037-MSD2)**

Source: E191407-01RE1

Prepared: 04/12/19 Analyzed: 04/19/19

**EPA 200.8**

Antimony	29.314	1.2	mg/kg dry	99.522	1.3475	28.1	70-130	10.2	20	QM-1
Arsenic	48.832	1.2	"	49.761	4.0239	90.0	70-130	3.81	20	
Cadmium	21.521	0.62	"	19.904	1.3373	101	70-130	3.51	20	
Lead	613.78	1.2	"	99.522	486.36	128	70-130	0.974	20	QC-4, XM-1
Mercury	5.1572	0.50	"	4.9761	0.25197	98.6	70-130	1.30	20	
Selenium	78.611	2.5	"	99.522	U	79.0	70-130	3.80	20	
Thallium	19.255	1.2	"	19.904	0.45906	94.4	70-130	0.926	20	

**MRL Verification (1904037-PS1)**

Prepared: 04/12/19 Analyzed: 04/19/19

**EPA 200.8**

Antimony	0.053221	0.10	mg/kg dry	0.050000		106	65-135			MRL-3, U
Arsenic	0.082178	0.10	"	0.10000		82.2	65-135			MRL-3, U
Cadmium	0.049628	0.050	"	0.050000		99.3	65-135			MRL-3, U
Lead	0.099576	0.10	"	0.10000		99.6	65-135			MRL-3, U



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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1904037 - M 200.2 Metals Soil**

**MRL Verification (1904037-PS1)**

Prepared: 04/12/19 Analyzed: 04/19/19

Mercury	0.082087	0.040	mg/kg dry	0.080000		103	65-135			MRL-3
Selenium	0.14944	0.20	"	0.20000		74.7	65-135			MRL-3, U
Thallium	0.051595	0.10	"	0.050000		103	65-135			MRL-3, U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

**Physical Properties (PHYSP) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1904030 - M % Solids**

**Duplicate (1904030-DUP1)**

**Source: E191407-10**

Prepared: 04/10/19 Analyzed: 04/11/19

**EPA 200.2**

% Solids	88.873	0.0	%		89.061			0.211	10	
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 19-0198

Project: 19-0198, Elm Street Lead - Reported by Jeffrey Hendel

**Notes and Definitions for QC Samples**

U	The analyte was not detected at or above the reporting limit.
MRL-3	MRL verification for Soil matrix
QC-4	Result greater than the highest point on the calibration curve
QM-1	Matrix Spike Recovery less than method control limits
XM-1	Sample background/spike ratio higher than method evaluation criteria